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| PREPARED BY | <input type="text" value="Richard Schmitt"/> | PREPARATION DATE | <input type="text" value="Feb 11, 2009"/> |
| PIPING SYSTEM TITLE | <input type="text" value="MuCool Transfer Line"/> | | |
| LAB LOCATION | <input type="text" value="MTA"/> | LOCATION CODE | <input type="text" value="MTA"/> |
| PURPOSE OF SYSTEM | <input type="text" value="transport nitrogen and helium between the refrigerator room to the detector hall"/> | | |
| PIPING SYSTEM ID NUMBER | <input type="text"/> | APPROPRIATE GOVERNING PIPING CODE | <input type="text"/> |
| PROCESS AND INSTRUMENTATION DRAWING NUMBER: | <input type="text" value="4906.320-ME-457075"/> | | |
| FLUID CONTENTS | <input type="text" value="Helium and Nitrogen"/> | FLUID SERVICE CATEGORY (IF B31.3) | <input type="text" value="Normal"/> |

DESIGN PRESSURES AND TEMPERATURES

INT. PRESSURE EXT. PRESSURE DESIGN TEMP

PIPING MATERIALS DESIGNER/MFG.

TEST PRESSURE TEST FLUID TEST DATE

PIPING SYSTEM CONFORMS TO FESHM 5031.1. INSTALLATION IS NOT EXCEPTIONAL

☐ YES ☐ NO

PIPING SYSTEM CONFORMS TO FESHM 5031.1:
INSTALLATION IS EXCEPTIONAL AND HAS BEEN DESIGNED, FABRICATED,
INSPECTED, AND TESTED USING SOUND ENGINEERING PRINCIPLES.

☐ YES ☒ NO

Reviewer's Signature _____

Date

Division/Section Head's Signature _____

Date

ES&H Director's Signature (if exceptional) _____

Date

Director's Signature or Designee (if exceptional) _____

Date

PIPE CHARACTERISTICS

SIZE

varies

LENGTH

varies

VOLUME

RELIEF VALVE INFORMATION (IF REQUIRED)

SET PRESSURE

60 psig

RELIEF CAPACITY

TYPE

MFG. NAME

RELIEF DESIGN CODE

IS THE SYSTEM DESIGNED TO MEET
THE IDENTIFIED GOVERNING CODE?

YES



NO

FABRICATION QUALITY VERIFICATION

List vendor(s) for assemblies welded/brazed off site:

List welder(s) for assemblies welded/brazed in-house:

Lenny Habracek, Jeff Harper

Append welder qualification records for in-house welded/brazed assemblies.

Append all quality verification records required by the identified code (e.g. examiner's certification, inspector's certification, test records, etc.)

SYSTEM DOCUMENTATION

PROCESS AND INSTRUMENTATION DIAGRAM APPENDED?



YES



NO

PROCESS AND INSTRUMENTATION COMPONENT LIST
APPENDED?

YES



NO

IS AN OPERATING PROCEDURE NECESSARY FOR SAFE
OPERATION OF THE PIPING SYSTEM?
(If YES, procedure must be appended)

YES



NO

EXCEPTIONAL PIPING SYSTEM

IS THIS PIPING SYSTEM OR ANY PART OF IT IN THE ABOVE CATEGORY?



YES



NO

IF "YES", FOLLOW THE REQUIREMENTS FOR AN EXTENDED ENGINEERING NOTE FOR EXCEPTIONAL PIPING SYSTEMS.

Print Form